



# THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.  
Founded in 1931

JANUARY, 2022  
VOLUME 74, ISSUE 5

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## RF EXPOSURE - ONLINE ONLY

SCOTT THEIS, W2LW, RARA VICE PRESIDENT

Due to the rise of COVID cases and the breakthrough cases caused by the Omicron variant, we have elected to return to online only for January. Like most organizations, we will be assessing the situation month-by-month.

Our January presentation will be a common-sense approach to ensuring compliance with new RF Exposure requirements that went into place May 3, 2021, and will be presented by Ron Panetta, WB2WGH.



According to the ARRL, the FCC announced rule changes detailed in a lengthy 2019 Report and Order governing RF exposure standards that went into effect on May 3, 2021. The new rules do not change existing RF exposure (RFE) limits but do require that stations in all services, including amateur radio, be evaluated against existing limits, unless they are exempted. For stations already in place, that evaluation must be completed by May 3, 2023. "In the RF Report and Order, the Commission anticipated that few parties would have to conduct reevaluations under the new rules and that such evaluations will be relatively straightforward," the FCC said in an April 2 Public Notice. "It nevertheless adopted a 2-year period for parties to verify and ensure compliance under the new rules." The release also states that the Amateur Service will no longer be categorically excluded from certain aspects of the rules, as amended, and licensees can no longer avoid performing an exposure assessment simply because they are transmitting below a given power level. For more information, see the

[ARRL New Release](#).

Our presenter, Ron, was first licensed in 1966, was active in the late '60s, early '70s, '90s and again starting in 2013. Ron is active in several of the Syracuse clubs in addition to the Rochester VHF Group. He primarily operates HF, is a casual con-tester and recently got the "VHF" bug. He retired after a 43-year career in engineering and information technology with Lockheed Martin in Syracuse.

Although not an RF exposure "guru" he presents a "Keep it Simple" approach to analyzing your station for compliance.

Please join us on Wednesday, January 5<sup>th</sup>, 2022, 7:00PM online by registering at:

<https://attendee.gotowebinar.com/register/6773711127547605260>

**DO NOT come in person, you will be alone in the parking lot!**

# RARA



K2JD

N2EH

W2EOC

# BOARDZ BUZZ

BRIAN O'CONNOR, KA2CGB

Season's Greetings! I trust you have had a peaceful Holiday.

At this start of the New Year, I will share some thoughts from my perspective as a member of your Board of Directors:

## Return to In-Person Meetings

In 2020, we transitioned from in-person to "remote" meetings in just one month. Throughout 2021, your Board has been anticipating our return to in-person gatherings. We were quite pleased that the **RARA Picnic** at Mendon Ponds Park in July was well attended. Our "reopening" has mostly been dependent upon venue providers' policies for facility use by outside parties.

Our **VE testing** team has resumed its Amateur Radio License test sessions at RIT after a year at the Shrine Center in Webster. RARA continues to offer VE testing at no cost; however, advance registration is required.

November brought many of us together for the first time in 18 months at the BSA for the **RARA Annual Auction**. There was lively bidding on the many items on offer, with almost all items going home with a proud new owner. It was great to see so many friends again!

Both raffle and refreshments returned for the "hybrid" December meeting. Ross Mazzola, KC2LOC explained the organization of the New York Guard and described their Military Radio Emergency Network. I learned a lot from his very polished presentation!

The two meetings at the BSA were a successful roll-out of our new audio system (which is still lacking a couple of pieces due to "supply chain" issues). Your Board is also considering ways to enhance video coverage of our in-person meeting for remote participants.

Looking back at how the situation changed within 2021 -- with vaccines becoming available, but Delta now prevalent, and Omicron just emerging -- we cannot predict the future. But we are planning future activities now in anticipation that we will be able to get together in a safe and responsible manner.

*Considering the current situation, and out of an abundance of caution, the Board determined that **our January meeting will be online-only.***

## Save the Date

Join us on 5 February at the RARA Winterfest in Mendon Ponds Park. We are returning to Stewart Lodge, which has ample space for visiting, nice trees and open areas for deploying antennas. I am looking forward to sampling the flavors of each crock pot!

## Hamfest

RARA is gearing up for a Hamfest this June. We are grateful that Tim Guyot, KB1POP, will again take the lead. A new venue is under consideration. The Hamfest committee is coming together and volunteer opportunities exist. "Stay tuned for more."

## On the Bands

The **ROC City Net** has transitioned from 75m to 160m for winter. Join them at 8PM Wednesday evenings on 1.810± MHz USB.

Ring in the New Year on CW! **Straight Key Night** runs from 8PM New Year's Eve until 8PM New Year's Day. Get on HF and have some fun pounding brass!

The ARRL's January VHF Contest runs January 15-16 from 3PM Saturday until midnight Sunday. Simply exchange your call and grid location on any band **50 MHz or above** using any mode. If you have an FM transceiver, take the time to call "CQ contest" on simplex frequencies such as 52.525, 146.580, 223.500 or 446.000 MHz.

Whenever you can, get on the air. Remember, the recipe for fun is **BISKT: butt in seat, keep transmitting!!**

Wishing you the very best for 2022.

73

## CALENDAR OF EVENTS

**WEDNESDAY JANUARY 5, 2022** - General Meeting Online Only

7:00 PM - AT THIS LINK

<https://attendee.gotowebinar.com/register/6773711127547605260>

**THURSDAY JANUARY 6, 2022** - RARA Board of Directors Meeting

6:30PM ON LINE

Email request for link to [secretary@rochesterham.org](mailto:secretary@rochesterham.org)

**SATURDAY JANUARY 15, 2022** - VE TESTING

10:00AM Rochester Institute of Technology, Bldg 16

Schmitt Interfaith Center, Skalny Room



## EDUCATION

Karl Heinz Kremer, K5KHK, Education Coordinator

### RARA LICENSE COURSES

Karl Heinz Kremer, K5KHK, License Class Coordinator

This is the January Rag, which means that license classes are starting soon:

The **Technician** license class will be taught by Karl Heinz Kremer – K5KHK – and will be on Tuesday evenings from 6pm to about 8pm, starting on 1/11/2022.

The **General** license class will be taught by Freddy Sulyma – WB2GFZ – and will be on Thursday evenings from 6:30pm to about 8:30pm, starting on 1/13/2022.

The “**Amateur Extra** Without the Math Anxiety” class is on the calendar! John Viggiano – NV2K – will teach this class on four Monday evenings (6pm or 6:30pm, the exact time will be determined later) on Zoom, starting on 2/21/2022. This will be specifically about the math part of the Extra curriculum. If you are planning on taking the Amateur Extra license test anytime soon, this will be an excellent addition to your test prep.

Is there anybody in your family, or among your friends who might be interested in getting licensed (or upgrade)? Please talk to all those who envy you for having all that cool ham radio equipment and see if they are interested in taking their first step to getting their own license. Show off our ham radio related Christmas presents and see if that creates some new interest in getting licensed ☺

Classes are free to RARA members, and if you would like to sign up, please send an email to [education@rochesterham.org](mailto:education@rochesterham.org). License manuals are available for \$25 – if you are interested, in a manual, please also send an email. The Technician test will change in July of 2022, with that, the license manual will change as well. We are running low on Technician license manuals, once we are out, you will have to pay the full price and get your own.

### RARA ELMERS CORNER

Suzanne Bishopp, W2SUZ

Rich Bishopp, KD2UBJ

Elmers Corner Coordinators

Start the New Year off with Rich and I at The Next Elmer's Corner on January 1st. Grab a cup of coffee, and check in at 10am, this is the forum to ask questions about anything ham radio or share nifty tips and tricks, like using hand warmers to keep your battery warm enough to charge in the winter.

The meeting is an open general Q&A format.

You can submit questions early if you would like, this way we can give our Elmers a chance to prepare. Submit those early questions to:

[elmerscorner@rochesterham.org](mailto:elmerscorner@rochesterham.org).

Elmer's Corner is for ALL hams! Beginners and experienced hams.

Even If you can't make it on the first Saturday of the month to the zoom meeting, let us know if you have a specific topic you would like to learn more about. We will do our best to find the right Elmer to present on the topic and get the answer to your questions. We record each meeting, so you can watch it later when you are available.

Thanks, and see you at the January Elmer's Corner!

### **January ELMERS CORNER**

Saturday, January 1st from 10AM – 12PM

Join Zoom Meeting

[https://us02web.zoom.us/j/83484674667?](https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09)

[pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09](https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09)

Meeting ID: 834 8467 4667

Passcode: 786545

### RARA ACADEMY WORKSHOPS

## HELP WANTED

We are still looking for somebody to coordinate our RARA Academy sessions. If you are a happy participant of any previous sessions (either as a presenter,

or as an attendee), and you want these sessions to continue, please consider volunteering your time. If you want to learn more about the role, please get in touch with me: [education@rochesterham.org](mailto:education@rochesterham.org)

If you have an idea for a potential Academy session, please let me know as well, and I will try to find a presenter.

## **MORSE CODE TRAINING**

**DAVE WILSON, WA2HOY, RXCWG COORDINATOR**

The RXCW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

### **BEGINNERS MORSE CODE ZOOM CLASSES**

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm. No experience required.

Join the group at any session.

Register at: [pfournia@gmail.com](mailto:pfournia@gmail.com)

### **MORSE PRACTICE FOR ALL LEVELS ON ZOOM**

Tim Brown, WB2PAY, hosts code practice for all levels on Wednesday evenings at 7pm.

Register at: [tjbrown@rochester.rr.com](mailto:tjbrown@rochester.rr.com)

### **MORSE PRACTICE ON AIR**

Tim Brown, WB2PAY, hosts on air practice on Tuesdays at 2PM on 6M at 50.250MHz.

**W1AW** - <http://www.arrl.org/w1aw-operating-schedule>

Time	Mon	Tue	Wed	Thu	Fri
<b>9 AM</b>		Fast	Slow	Fast	Slow
<b>4 PM</b>	Fast	Slow	Fast	Slow	Fast
<b>7 PM</b>	Slow	Fast	Slow	Fast	Slow
<b>10 PM</b>	Fast	Slow	Fast	Slow	Fast

SLOW - 5, 7 1/2, 10, 13 and 15 wpm

FAST - 35, 30, 25, 20, 15, 13 and 10 wpm

FREQ(MHz) - 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, 147.555

W1AW Code Practice MP3 Files: <http://www.arrl.org/code-practice-files>

To set up a cw sked, contact  
Peter at [pfournia@gmail.com](mailto:pfournia@gmail.com) or  
Tim at [tjbrown@rochester.rr.com](mailto:tjbrown@rochester.rr.com)

## **CW ELMERS**

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	<a href="mailto:w2ned@frontiernet.net">w2ned@frontiernet.net</a>
Tim Brown	WB2PAY	Ogden	<a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a>
Pete Fournia	W2SKY	Penfield	<a href="mailto:pfournia@gmail.com">pfournia@gmail.com</a>
Bill Hopkins	AA2YV	Brighton	<a href="mailto:whopkin4@naz.edu">whopkin4@naz.edu</a>
Bob Karz	K2OID	Webster	<a href="mailto:rkarz@rochester.rr.com">rkarz@rochester.rr.com</a>
Joe Rowe	AG2Y	Webster	<a href="mailto:ag2y@rochester.rr.com">ag2y@rochester.rr.com</a>
Harry Williams	KF2TV	Webster	<a href="mailto:harryw7872@gmail.com">harryw7872@gmail.com</a>

## **RADIO ELMERS**

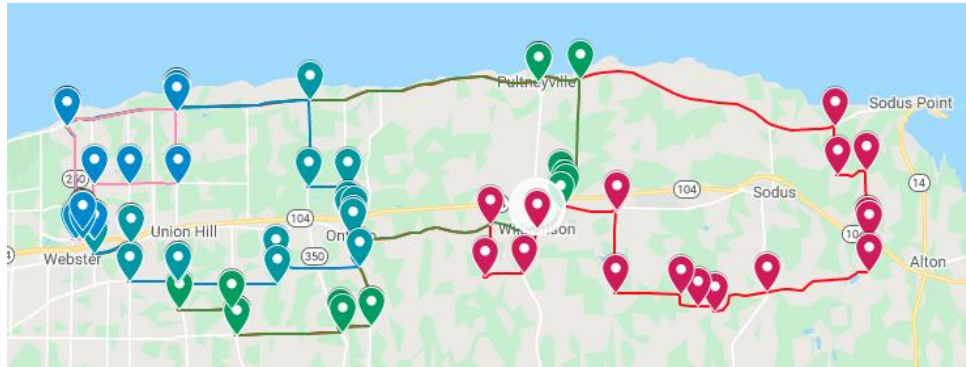
Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	<a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a>
Dave Carlson	N2OA	Batavia	<a href="mailto:kdcarlso@gmail.com">kdcarlso@gmail.com</a>
Lawrence Hill	N2AJX	Henrietta	<a href="mailto:lawrence.hill@rit.edu">lawrence.hill@rit.edu</a>
Rich Hoffarth	K2AXP		<a href="mailto:rhoffarth2000@yahoo.com">rhoffarth2000@yahoo.com</a>
Bill Kasperkoski	WB2SXY	Pittsford	<a href="mailto:wb2sxy@gmail.com">wb2sxy@gmail.com</a>
Don Kiser	AC2EV	N Greece	<a href="mailto:dkiser100@gmail.com">dkiser100@gmail.com</a>
Karl Heinz Kremer	K5KHK	Chili	<a href="mailto:k5khk@khk.net">k5khk@khk.net</a>
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		<a href="mailto:mikemoore@ieee.org">mikemoore@ieee.org</a>
Peter Schuch	WB2UAQ	Perinton	<a href="mailto:pschuch@rochester.rr.com">pschuch@rochester.rr.com</a>
Forest Shick	WA2MZG	Webster	<a href="mailto:fshick3@gmail.com">fshick3@gmail.com</a>
Dave Timmons	W2DST	N Greece	<a href="mailto:dstimmons@gmail.com">dstimmons@gmail.com</a>
Steve Verzulli	KA1CNF		<a href="mailto:verzulli@yahoo.com">verzulli@yahoo.com</a>
Dan Waterstraat	W2DEW	Henrietta	<a href="mailto:higreen@rochester.rr.com">higreen@rochester.rr.com</a>



# PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

There has been one meeting of the planning team for the [2022 American Diabetes Association Tour de Cure](#). The ADA is planning to hold an in-person ride this year and the date is Saturday, June 11, 2022. The Xerox campus in Webster will be home base for this event as was done in past years. One big change for this year is that our event will involve riders and fundraising for all of upstate New York rather than just counties surrounding Rochester. For us, one challenge will be that we may have more riders and volunteers who do not have a native knowledge of the ride course. The courses are just now being designed but the plans are to provide 100 Mile, 63 Mile, 40 Mile, 25 Mile and 12 Mile Routes. I expect that the ride courses will look much as they have in the past.



I have listed the remainder of our planned 2022 public service events in the table below. Last year, the MS ROC the Ride event moved from Genesee Valley Park to Lakeside Beach State Park and our involvement was a last minute development. The ride courses were all in Orleans and Niagara Counties and while RARA provided the event leadership, the hams from Orleans and Niagara Counties provided the communications repeaters and many course volunteers. This year, if the MS Society wants to repeat the ride location, I will work to see that Orleans and Niagara County clubs are offered leadership of the event.

The Rochester Museum and Science Center offered a program this year entitled "[Snowed In: Winter Break Science Days](#)". We contacted them on a monthly basis regarding the prior Holiday Science and Technology program but there was apparently not a role for RARA this year. I plan to visit the event this year to learn more about what it is and how we might be invited next year.

We will continue to work with our served agencies about what the coming year will bring. For up to date information about all of our Public Service events take a look at our RARA website

[https://www.rochesterham.org/public\\_service](https://www.rochesterham.org/public_service).

## Please mark your calendars for our upcoming RARA Public Service Events

Event	Location	Day	Date
Tour de Cure	Xerox, Webster	Saturday	June 11, 2022
MS ROC the Ride	TBD	TBD	TBD
Fairport Liftbridge Regatta	Canal, Fairport	Saturday	Sept. TBD 2022
Pumpkin Patrol	Bridges of NYS Thruway	Sunday, Monday	Oct. 30, 31, 2022
Holiday Science and Technology Days	Rochester Museum and Science Center	TBD	TBD

# PROFESSOR'S PIC(K)S

JEFF SONSTEIN, KD2RRB

[Jimmy Stewart's Hallicrafter](#)

[Automated Diorama](#)

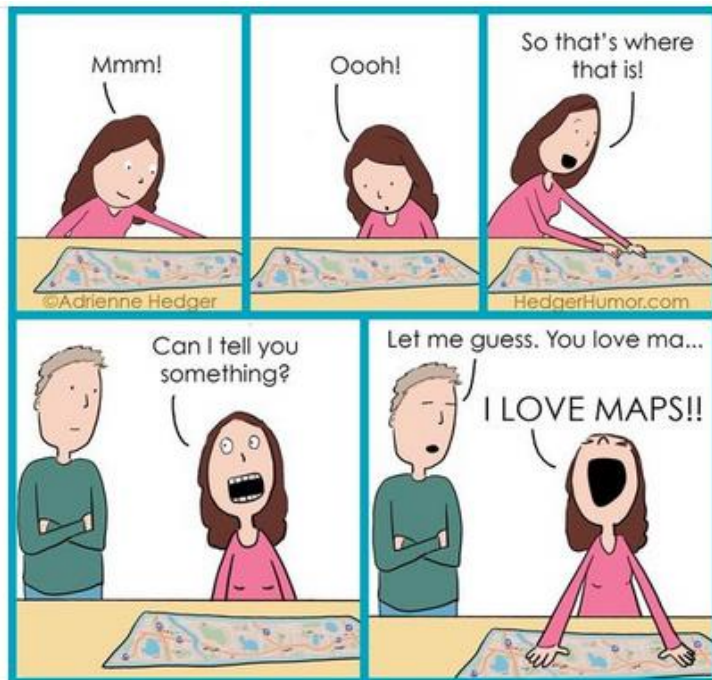
[Gear Bags for Portable Operating](#)

[Printed Circuit Bird](#)

[Test Signals From WWV and WWVH](#)

[Communication From Space](#)

[Zero Click iPhone Attack](#)



Geomorphology Rules

November 22 at 10:00 PM · 🌐

Happy Mapping Monday

Contributed by Bill Hopkins AA2YV

## HAM QUIPS "Hand Microphone"



A True Voice Operated "Hand Microphone"

Dick Sylvan, W9CBT, is a very accomplished ham radio cartoonist and his work appeared previously in the K9YA Telegraph and also appears in the NAQCC Newsletters. His book "HI - HI - A Collection of Ham Radio Cartoons" is available at [www.lulu.com](http://www.lulu.com)

# Membership – Time to Renew!

- Over 570 members at the End of September
- Sixth largest ARRL affiliated club
- Memberships Lapsed on October 1st
- Renew or join now at:  
<https://www.rochesterham.org/>
- If you have a problem renewing, please email us at:  
[membership@rochesterham.org](mailto:membership@rochesterham.org)



## RARA MEMBERSHIP

**TIM BARRETT, K9VB. RARA PRESIDENT AND MEMBERSHIP SECRETARY**  
[membership@rochesterham.org](mailto:membership@rochesterham.org)

I am pleased to report that we ended the membership year with over 570 fully paid members.

Having a strong membership is a great help in attracting good speakers and negotiating resources for the club. I will be shortly writing to the ARRL to report our club size as required for all ARRL affiliated clubs. Currently we are in the top 6 of national ARRL affiliated clubs according to ARRL statistics which is quite an achievement. Being part of such a large and successful club should be a source of pride to all our members.

On September 30<sup>th</sup> our membership year ended and so we are now back into

renewals season. Some of you have already renewed for the 2021 / 2022 season; thanks for doing that so promptly.

If you have not renewed yet, please take a moment now to go to the [renewals page](#) and get your membership up to date. If you don't recall your access code there is an option on that page to have it emailed to you. You can pay by credit card (you do not need a Paypal account) or there is an option to pay by mailing a check. Those of you reading this who are not members, or have allowed membership to lapse a while ago, please consider joining / rejoining [here](#).

Annual rates are very reasonable, \$15 for a full member (\$10 for Seniors) and \$10 for Associate members without a callsign. Associates get a free upgrade to full member when they get their ticket. Also note that you can join family members living in the same household as you for just \$5 per additional person.

**Don't Delay, Renew Today!**



# ARRL STRAIGHT KEY NIGHT 2022

DAVE WILSON WA2HOY

Ring in the New Year with a fun, easy CW activity that hearkens back to the early days of amateur radio. It's not a contest, but a chance to get on the air and have some fun making QSOs with those classic straight keys.

From the ARRL web site: "Objective: This 24-hour event is not a contest; rather it is a day dedicated to celebrating our CW heritage. Participants are encouraged to get on the air and simply make enjoyable, conversational CW QSOs. The use of straight keys or bugs to send CW is preferred. There are no points scored and all who participate are winners."

Straight Key Night starts January 1 at 0000 UTC and runs through 2359 UTC.

More details can be found on the ARRL web site:

<http://www.arrl.org/straight-key-night>

## JANUARY IS STRAIGHT KEY MONTH

KARL HEINZ KREMER, K5KHK

It's time again to polish those brass straight keys and bugs to get ready for the Straight Key Night (SKN) on New Year's Day (UTC, which means you can get quite a bit of operating in before the ball drops at midnight). Details about this operating event can be found here: <http://www.arrl.org/straight-key-night>

And, once you've made your SKN contacts, keep that key ready, because the remainder of January is the Straight Key Century Club's anniversary event with the K3Y special event call being on the air from all ten US calling areas, plus KH6, KL7 and KP4. There will also be a number of associated DX stations and of course a some Canadian stations participating in the event. The plan is to have all 50 states participate in using the K3Y call sign. If you need to fill in some states for your CW WAS, this is a good opportunity.

You can keep track of your progress by using the SKCCLogger program (see the SKCC web page for more information). And, after the event, there is of course a QSL card that will list all the areas you were able to contact. To learn more about the event, see the official SKCC page: <https://www.skccgroup.com/k3y/k3y.php>

If you've participated in previous years, and feel up to the challenge, you can even volunteer to operate K3Y for an hour or two. If you are working on climbing the SKCC ladder towards your senator level, that is a great chance to get a lot of contacts in a short amount of time.

I hope to hear you on the air when I chase the K3Y stations across the world.

# PROGRAMMING A BAOFENG UV5R WITH THE KEYPAD

KARL HEINZ KREMER, K5KHK

For new Technician class licensees, the most popular radio is probably the Baofeng UV5R (or its siblings) – some of my students already own one before they take the class (or the license test). The best way to program these radios is by using Chirp on a computer, and to connect the radio with a USB programming cable. These cables unfortunately don't come with the radio and need to be purchased separately. Our club (RARA <https://rochesterham.org>) has in the past had HT programming events, where owners of different HTs could bring their radios, and have them programmed with local repeaters and some simplex frequencies.

These radios can also be programmed using just the front panel buttons. That is where it gets a bit more involved. I hope the following will help you to get started. I am using the WR2AHL repeater as an example, for a different repeater you will need to look up the information that is required (repeater output and input frequency, frequency shift and direction and tone information).

Forest Shick WA2MZG created a little cheat sheet that you can fold up and put in your wallet or purse. You can find this document in the 5/2015 edition of the RARA Rag (<https://rochesterham.org/documents/rararags/2015-05.pdf> on page 8).

Here is the repeater's information from RepeaterBook for the repeater we want to program:

[https://www.repeaterbook.com/repeaters/details.php?state\\_id=36&ID=281](https://www.repeaterbook.com/repeaters/details.php?state_id=36&ID=281)

If you want to program a different repeater, write down all the information you need.

This is what we need for WR2AHL, if you want to program a different repeater, write down all the relevant information in the blank column:

Description	WR2AHL	Your Repeater
Repeater Output Frequency ("Downlink")	145.110MHz	
Repeater Input Frequency ("Uplink")	144.510MHz	
Offset	-0.600MHz	
Tone	Yes	
Tone Frequency	110.9Hz	



You may ask why we need both frequencies and the offset. That's one of the odd "features" of the Baofeng radios. For a more user-friendly radio, you will only need one piece of this information, and for some radios, the offset is calculated automatically based on the repeater's output frequency.

The "Repeater Output Frequency" (or downlink frequency) is the one that we listen to on our radios. Even if you don't know anything about how a repeater works, or what its frequency offset is, by just tuning to this frequency, you can listen in on the QSOs on the repeater. The repeater's input frequency is the frequency that our radios transmit on, and that the repeater listens on to then re-transmit the received signal on its output frequency.

Let's talk about the how to program the radio. Your radio can be in one of two modes: memory recall (MR) mode, or VFO mode. In MR mode, you can recall the settings for a repeater with just selecting the memory location you've programmed for this configuration. In VFO mode, you can select any supported frequency. To program a memory location, the radio needs to be in VFO mode.

The first few steps are related to getting the radio into a mode that will either allow you to program the repeater frequency, or to make it easier.

Step 1a: If you see small numbers displayed on the right edge of the display (they indicate memory locations – see the figure 1), to the right of a frequency, or a memory name, then push the VFO/MR key. This should remove these memory location numbers. You are now in VFO mode, and using the up and down keys should change the displayed frequency in fixed steps (more about that later). Pushing VFO/MR again will just toggle between the VFO mode (which is what we want) and the memory mode (which is what you will use after we are done to recall this programmed memory channel).



Fig. 1 Radio is in channel mode, VFO A selected

When you select a memory channel during the following steps, any channel that is already programmed will use "CH-012", a channel that is not yet programmed (and therefore available without having to clear out old data) will show up as "012" (this is for memory channel 12). So if you see "CH-", you know that you've already programmed that channel, and in order to replace its configuration, you should run menu item 28 (this will make more sense once you are done programming your first repeater configuration). See figure 2 and 3 for the difference between an empty channel, and one that is already programmed.



Fig. 2 Channel is programmed



Fig. 3 Channel is not programmed

Step 1b: Change the active VFO to VFO A by pushing the A/B button until you see a small triangle pointing up in front of the first line on the display (see figure 1).

Step 2a: We are now setting the frequency step or frequency difference that is used when you use the arrow up or down buttons. You will avoid problems by setting this to 5kHz. To do this, push the following buttons:

- 1) Push Menu - this will put you into menu mode. If this is the first time you are pushing menu since the radio has been turned on, it will start out with menu item #3, the squelch level ("SQL"). You can move to other menus by either using the up and down arrow keys, or by pushing the number keys to jump directly to a menu location. Both options will be listed in all further steps that access a specific menu item. There is a timeout, which exits the menu function, so you have to be fast enough to push the next button, so be prepared.
- 2) Use the up/down buttons to go to menu location 1 (or push the 1 key to jump to the menu location). You should see "STEP" displayed on the top line (see figure 4).



Fig. 4 The "Step" menu

- 3) Push Menu (this will now allow you to edit this configuration setting)
- 4) Use the up/down buttons to select "5.0K" (as in 5kHz)
- 5) Push Menu (this will save the modified configuration setting)
- 6) Push Exit (this will leave the menu hierarchy and you are back in VFO mode)

Step 2b: It helps to have voice mode on, so that you can hear what the radio is doing. For this, you need to push the following buttons:

- 1) Push "Menu" (this will put you into menu mode)
- 2) Use the up/down buttons to go to menu location 14 (or push the 1 key quickly followed by the 4 key to jump to the menu location directly). You should see "VOICE" displayed on the top line.
- 3) Push "Menu" (this will now allow you to edit this configuration setting)
- 4) Use the up/down buttons to select "ENG" for English
- 5) Push "Menu" (this will save the modified configuration setting)
- 6) Push "Exit" (this will leave the menu hierarchy and you are now back in VFO mode)

If you turn your radio on, and it is talking to you in Chinese, now you know how to fix that.

Step 2c: According to several tutorials I've seen, having the radio in Dual Watch or TDR mode, might interfere with the keypad programming, so we will turn this off using the following buttons:

- 1) Push "Menu" (this will put you into menu mode)
- 2) Use the up/down buttons to go to menu location 7 (or push the 7 key to jump to the menu location directly). You should see "TDR" displayed on the top line.
- 3) Push "Menu" (this will now allow you to edit this configuration setting)
- 4) Use the up/down buttons to select "OFF" to turn TDR off.
- 5) Push "Menu" (this will save the modified configuration setting)
- 6) Push "Exit" (this will leave the menu hierarchy and you are now back in VFO mode)

Step 3: Enter the repeater's output frequency by pressing the following buttons, one after the other for 145.110MHz – or use whatever repeater output frequency you want to program: 1 4 5 1 1 0

The decimal point between 145 and 110 will be added automatically (see figure 5).



Fig. 5 After entering the repeater frequency

Step 4: Set the power level to "High" by using the following button sequence:

- 1) Push Menu
- 2) Use the up/down buttons to go to menu location 2 (or push the 2 key to jump to this menu location). You should see "TXP" displayed on the top line.
- 3) Push Menu (this will now allow you to edit this configuration setting)
- 4) Use the up/down buttons to select "HIGH"

- 5) Push Menu (this will save the modified configuration setting)
- 6) Push Exit (this will leave the menu hierarchy and you are back in VFO mode)

By now you can probably see a pattern: Push menu to get into the menu system, select the menu item to modify by either using the arrow buttons, or by entering the menu item position. Then you push "Menu" again to confirm the change, followed by "Exit" to get out of the menu. This sequence will be used for all the following changes.

Step 5: Set the channel bandwidth by using the following button sequence:

- 1) Push Menu
- 2) Select menu item 5 ("WN")
- 3) Push Menu
- 4) Select the "WIDE" setting
- 5) Push Menu
- 6) Push Exit

Step 6: Set the tone frequency

- 1) Push Menu
- 2) Select menu item 13 ("T-CTCS"). If you want to select this by entering "13", you need to be fast. The "3" needs to follow the "1" right away. If that's not the case, you will jump to menu item 1, followed by menu item 3.
- 3) Push Menu
- 4) Select "110.9HZ" (or whatever tone frequency you need for the repeater you are configuring, push 0 if you do not need to configure a tone)
- 5) Push Menu
- 6) Push Exit

Step 7: Store the repeater offset

- 1) Push Menu
- 2) Select menu item 26 ("OFFSET")
- 3) Push Menu
- 4) Enter 0 0 0 6 0 0 (for 0.6MHz or 600kHz) – as before, the decimal point will be added automatically. For UHF repeaters, you would enter have to specify 5MHz as 0 0 5 0 0 0.
- 5) Push Menu
- 6) Push Exit

Step 8: Store the offset shift direction (we need -600kHz, other options are + and OFF)

- 1) Push Menu
- 2) Select menu item 25
- 3) Push Menu
- 4) Select "-" (for a different repeater setup, you may need "+", or to turn off the shift using "OFF" for simplex channels)
- 5) Push Menu
- 6) Push Exit

#### Step 9: Store the RX frequency

- 1) Push Menu
- 2) Select menu item 27 ("MEM-CH")
- 3) Push Menu
- 4) Select the memory channel you want to store the new configuration to (e.g. "10")
- 5) Push Menu
- 6) Push Exit

If you have the voice prompts on, you will hear that the radio just stored the receive frequency.

Here is where it gets tricky: We already told the radio that we are using an offset of -600kHz, but the Baofengs are not as smart as other radios, so we still need to store the transmit frequency. We can either enter the frequency, or we can make use of the "Reverse" or "Reverse Split" function you may remember from the Technician license test. This will swap the transmit and receive frequencies, and you can listen on the repeater's input frequency. But it can also be used to make the frequency we would normally transmit on our active frequency, so that we can program it.

Step 10: Store the TX frequency (there is one additional step involved, so please read carefully, and don't go into autopilot mode because you've done this now so often that your fingers just "know" what to push).

- 1) Push "\* SCN" to activate the reverse mode (when holding this button, you will activate the scan mode, so just push it fast, and don't hold it in for too long – see figure 6).
- 2) Push Menu
- 3) Select menu item 27 ("MEM-CH")
- 4) Push Menu
- 5) Select the memory channel you want to store the new configuration to (e.g. "CH-010")
- 6) Push Menu
- 7) Push Exit



Fig. 6 The "\* /SCN" button

If you have voice prompts on, you will hear that the radio just stored the transmit frequency.

At this point, you are good to go. Switch the radio back to memory mode by pushing VFO/MR and then use the up/down buttons to select the memory channel you just programmed.

You can also use the same process to store simplex channels. For those, you want to make sure that you select the shift direction to "OFF" in menu 25.

If you want to re-use a memory channel, it's a good idea to remove it before you start to fill it again. This can be done with menu 28.

To turn dual watch on again, use menu item 7, and to turn off voice prompts, use menu 14.

Here is an Expert Tip:

Once you've done this a few times, you do not have to push "Exit" after each step, I only added this so that you will not get lost in the steps, and after each step, you are in a defined place (out of the menu system). You can just skip the "Exit" at the end of a step, and the "Menu" at the beginning of the following step and select the next memory location right away. You also don't have to do the steps in the same order, the important thing is that everything is set up before you store the RX frequency, followed by the TX frequency. If this paragraph sounds too confusing, just stick to the steps outlined above.



# RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN

## 20 Years Ago, January 2002

Over the years many readers have noticed the January issue of the Rag, when announcing the meeting subject, will find the topic having to do with VHF/UHF operations. This month follows suit and the reason is that for over forty years the ARRL VHF contest has been held in January and the Rochester VHF Group has operated the contest as a club effort in a very competitive manner. This month is no different. RARA Program Chair, Marykay Vesco KC2DPG, introduced the speaker as Jim Howard N2JMH, who presented a wonderful program about roving and VHF contesting. Jim not only presented at the January 4th meeting, but he also wrote a front page article covering the Rochester Cup which is presented annually to the local radio club presenting the most VHF contest points each year. If one club wins three years in a row they get to keep the cup. At this time RARA had won the cup for two years in a row. Prior to Jim's main presentation, Harold Smith (sk) K2HC, took the floor for a few moments to introduce details and plans for the 2002 Rochester Hamfest. Taking a full page was Bill Kasperkoski WB2SXY, writing to tell an interesting, long and historic story involving shore side ham radio operations, the flying of kites and involvement by the Rochester Coast Guard station. It all started when John Gilly W3OAB, learned of the 100th anniversary of G. Marconi's now famous sending of a single Morse Code letter "S" across the Atlantic in 1901. John thought it would be nice to re-enact the event and started getting ideas in motion. (I should put my historian's hat on here and mention that Marconi's 1901 antennas blew down and his accomplishment was achieved by flying a kite antenna. – Ed) OK, so now we sort of understand why normally sane folks including John Van Griethuysen N2BNE, Mike Bowen KC2BTE and Paul Meyers N2OPW, were trying to fly kites off the Coast Guard pier in freezing cold WX. Others set up Peter Fournia's (W2SKY) IC-751 transceiver and Mike Rundle's (N1OKL) portable HF antenna where Bill Hopkins AA2YV, pounded brass to demonstrate true amateur operation. Observing all of this was Mellissa Long and Jerry Fiore from WROC-TV Ch8 and Bud Lowell from WXXI who recorded the event for later broadcasting. Norm Turner WB2LQB, License Class Director, wrote to conclude the 2001 RARA Class sessions and to introduce the 2002 classes planned to begin on May 13, 2002. Norm recognized and thanked instructors: Carl Preddy KU2N, Bill Kasperkoski WB2SXY, Lynn Rosenberg N2IZX and Alan Skiles N2VY. After classes the final step is the FCC exam where RARA Volunteer Examiners: George Platteter (sk) AA2FO, Alex picirilli NV2Y, Warren Boudrie AA2LQ, Marykay Vesco KC2DPG and Bob Moore N2USB conducted themselves and the exams in a professional and stress relieving manner. Brad Allen (sk) KB2CHY (sk), wrote for the Rochester Radio Repeater Association (RRRA) where he told of plans to make significant upgrades to the 146.88 Rochester Repeater. Included were adding an additional voting receiver to cover Greece and to the North. Harold Smith (sk) K2HC, General Chairman of the Rochester Hamfest, penned an article to describe a new service to be offered at the 2002 Rochester Hamfest. The service, called "Bring and Buy" enables flea market sellers who don't want to sit for hours trying to sell just one or two items, to bring that item to RARA's selling table and let us sell it for you, for a small fee, while you enjoy the hamfest. Bill Hopkins

AA2YV, wrote an interesting story of his QRP activities that was both entertaining as well as a bit of a "how to" in regard to the challenges of low power operation. Like all of Bill's work, it's timeless and is still a valid read twenty years later. Bill continues to write and is a regular columnist in the Antique Wireless Association's quarterly publication "The AWA Journal." With regret it was reported that Charles M. Brelsford K2WW, was reported a Silent Key. Charles was a past RARA President, and was a former President and Chairman of the Board of the Antique Wireless Association. From the Want Ads you could buy a Hammarlund SP-600-JX17 receiver from Ed Gable K2MP, for \$295.00. Marykay Vesco KC2DPG, Life, Accident & Health Insurance Agent, remained a long term advertiser.

The RARA Rag  
Published by  
ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL.54 JANUARY 2002 NO. 5

**"Contest Roving  
And Rochester NY"**  
Marykay Vesco, KC2DPG

Are you interested in participating in a VHF contest? Do you know what the Rochester Cup is? Have you enjoyed contests in the past? Well get ready for Jim Howard, N2JMH as he will be presenting a wonderful program about roving and VHF contesting at the January meeting. He will include the January VHF contest and the Rochester Cup that is sponsored by the RVHFG. So come to our first meeting of 2002 on January 4<sup>th</sup> at 8:00 PM. This year, our meeting will be held at the Henrietta Fire Hall at 3129 E Henrietta Rd. Get out, see the snow and socialize with some very friendly ham radio operators. Don't forget to bring a unique and prized QSL Card you have received to this meeting.

In addition to our scheduled program, and before Jim Howard gives us his presentation, we will give Mr. Harold Smith, K2HC the floor for a few minutes. He will introduce this year's Rochester Hamfest for you along with his new title and what it stands for. He will present an opportunity for our club members to participate in helping to fill all the tables for our Hamfest this year so as to make it the greatest ever.

**RARA Meeting**  
January 4, 2002  
8:00 PM  
Henrietta Fire Hall,  
3129 E. Henrietta Rd.  
**CONTEST ROVING**  
Presented by Jim Howard, N2JMH

**Rochester Cup Competition**  
Jim Howard, N2JMH

Once again the time of year for the January VHF Sweepstakes is approaching. I hope to encourage all the members of RARA to participate in this event. There are a few matters of pride that need to be contended with here and I will explain what they are.

Last year the RDXA barely edged out RARA for the claim to the Rochester Cup and this makes 2 years in a row that they have won. One more win and they retire the cup to their trophy case permanently. I know that RARA has the members and ability to give any club a run for the bragging rights. Avid contester or not this is a perfect opportunity to get out your gear and make some QSO's.

As some may know Rochester NY has a very high per capita ham population. The RVHFG has always been competitive in the ARRL club competition for the January VHF Sweepstakes with numerous 1<sup>st</sup> place finishes throughout the previous years even without the advantage of being near so many major population centers. The last few years have had us not quite able to crack the top spot though. What we need from you is your participation. We want to put Rochester NY back in the top spot once again but might not be able to without your help!

Log submission and scoring has been simplified starting last year for the Rochester Cup. No more going through your log to find RVHFG members. Your score towards the Cup is your aggregate score, the end. Club with the highest score wins. All you have to do is submit a duplicate copy of your log to the RVHFG with the original going to the ARRL. There are various logging programs out there and you can also, still use a paper log with

(Continued on page 3)



At the time it was high tech and the buzz word of communication experts everywhere, and you heard it first at RARA. The speaker for the evening was Dick Kessler, K2SZE, speaking on the topic of frequency hopping, or the newer more definitive phrase of Spread Spectrum. Dick has been experimentally applying this mode on the ham bands using special authority from the FCC. Dick and Paul Rinaldo K4RI, who is President of the Amateur Research and Development Group, and a few others, are using real on-air QSO's to gather system data. Although developed for the military as a mode impervious to outside interception by an enemy, Kessler also explained advantages for the Amateur community. RARA attendees were saddened to learn that RARA President Don Drennan W2EBF, could not officiate at the meeting due to a kidney ailment that appears to be prolonged. Time will tell. RARA Vice-President Ed Holdsworth N2EH, wrote to inform members on the progress of the RARA K2JD Club Station move to 111 Westfall Road in Rochester. Ed reported the move was mostly routine except for the need for ten runs of RG-213 coax up the eleven story building. The elevator shafts made that job somewhat easier, but this writer remembers the periodic run up and down of small buildings called elevators, a hazard never before experienced. Bruce Kelley W2ICE, co-founder of the Antique Wireless Association, wrote to tell the story of Rochester's first known wireless experimenters; John Albert of Clarrisa Street and Merritt Moser of West Avenue, both 11 years of age. Using common rigs of the day, a Ford style spark coil and crystal receivers, they accomplished 1.5 mile QSO's on a regular basis. Oops, did I forget to mention their call letters? No, they had no licenses as this 1910 activity pre-dated today's FCC and licensing requirements. Most experimenters simply used their initials and thus JA would be communicating with MM. From the oldest to the newest communicators was told of as we learned of a new organization called LEWNY's, or Longwave Experimenters of Western New York. Started by Steve Sykes KA2KGM (now KD2OM) and Tom Richmond WA2IEY (now VE3IEY), their goal was the enhancement of amateur communications below 100 kHz. Jim Magill KA2HWW, wrote to tell readers that Amateur Radio in general received a nice plug in the December 1981, issue of the Saturday Evening Post. Pictures of Senator Goldwater K7UGE and King Hussein JY1, of Jordan probably helped. The title of the article was a catchy "The Hams That Can't be Cured." Peter Secrist W2SUN, Ticket Chairman for the annual Valentine Dinner-Dance, told to get your thirteen dollars in to him for the night on the town. Unfold your paper map and trace a line to Barry's Party House on Dewey Avenue and enjoy dinner and dancing to Peter Matina's Orchestra. Rick Berg WA2RLQ, while pounding his fist on the table I'm sure and typing with one finger, ranted against the terrible emergence of on-air DX list taking and various call-in DX Nets popping up seemingly everywhere, in his opinion. Rick, an accomplished DX'er and popular RDXA supporter, shared this common theme with many, and others not so much. With regret it was reported that Harland (Hogi) Hogeboom K2RZL, and Joe Welch K3CT, were reported as Silent Keys. Hogie was an early regular on VHF AM and had many friends in the area. Joe is remember by many as a the Engineer-in-Charge of the FCC's Philadelphia office and the person who convinced his bosses to allow FCC examiners to attend and give exams at the Rochester Hamfests, an unheard of move at the time. Hundreds of Rag readers today benefitted from years of FCC

in-field examinations before the days of VE Exams. From the Want Ads you could buy an ICOM IC-255A two meter rig from Paul Adler WA2ITK for \$235.00. Norm Webb K2PPO, advertised his Amateur and Commercial equipment Repair Service as a commercial advertiser.

1911 activity

# The RARA RAG

Published by  
The Rochester Amateur Radio Association  
INCORPORATED

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NO. 5

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## JANUARY 8th MEETING BACK AT EISENHART AUDITORIUM

The January RaRa meeting will be held one week later than normal, January 8th (due to the 1st Friday being New Years Day) at 8 p.m. in the lower meeting hall of the Eisenhower Auditorium of the Rochester Museum and Science Center. This is located near the southeast corner of East Avenue and South Goodman Street. The parking lot entrance is the first driveway on Goodman Street south of East Avenue.

The program for the meeting will be presented by Mr. Richard Kessler, K2SZE, and will be about a new communications technique that was developed for the military but that is now being experimented with on the Amateur bands called "frequency hopping" or officially known as "Spread Spectrum". In this mode of communication, a transmitter operates on a particular frequency for an instant of time and then shifts immediately to another frequency, and so on. In order to receive this transmission, the receiving system must receive on the exact same frequencies at the exact same periods of time. This, of course, is most useful for the encryption of radio signals. Dick will explain the Amateur applications of this technique and the details of the first Amateur frequency-hopping experience between himself and Paul Rinaldo, K4RI, President of the Amateur Research and Development Group. Paul, Dick, and a few others have been conducting these Spread-Spectrum experiments under a Special Temporary Authority granted by the FCC. Dick will also bring a tape so we can actually hear what the transmission mode sounds like.

All members and others interested are welcome to attend. Bring a friend.

## RaRa PRESIDENT HOSPITALIZED

by Dwight Hill, K2KWK

Don Drennan, W2EBF, also known as our President of RaRa is having some bad luck with his health. He started out two years ago wanting to be the President of RaRa. Besides making the decision, you then have to first be elected to Vice-President for a year's term. After that year you then are advanced to be President for a year. So about two and a half years ago he set a goal. Unfortunately beginning this past fall he developed some kidney trouble which has continued to plague him now into December. He has been truly unable to attend the many meetings he anticipated. He has been unable to enjoy doing things with the members. But he has not lost his interest in RaRa. His enthusiasm is only limited by his incapacity. We all certainly wish him well for the holiday season and the new year. He has been in the thoughts of many. If you should hear him on the air (most likely 2FM) be sure to take the time to say HI.

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## FROM: THE PRESIDENT'S DESK

(Room 576, R.G.H.)

I would like to wish all of you a Happy New Year. I hope you have all had a good holiday. We are looking forward to seeing and being with you more in 1982. In the meantime, may the Lord bless you and yours in the coming year.

*Don Drennan, W2EBF*

## SILENT KEYS

**K2RZL, "Hogi", Harland G. Hogeboom**  
Passed away December 11th.

**K3CT, Joe Welch**  
Formerly Engineer-in-charge of the FCC's Philadelphia office passed away December 7th, a victim of cancer. Joe was well known by anybody who took an FCC exam at the Rochester Hamfest before his retirement in 1980. He was awarded the Rochester Hamfest "Ham of the Year" honor at the 1980 Hamfest.

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## SPRING LICENSING CLASSES TO START SOON

The Spring series of RaRa licensing classes will begin the mid-February. More details will appear in the February RAG.

# VE TEAM

**Testing on Saturday January 15, 2022**  
**At a NEW LOCATION**  
**Returning to RIT**  
**ROCHESTER INSTITUTE OF TECHNOLOGY**

Building 16 - **Schmitt Interfaith Center**  
 43.08402626755475, -77.6734520379509

Parking: **U-Lot**  
 43.08261562973969, -77.6739921659069  
 It is off Andrews Memorial Drive

Room: **Skalny Room (SMT-A500)** there is an access door by the dock marked by the blue arrow.

**Pre-registration is required visit:**

<https://hamstudy.org/sessions/14612/inperson> to find the latest session.

**COVID questionnaire and masks required:**

<https://rochesterham.org/documents/education/2020-10-09%20COVID-19%20Questionnaire%20Form.pdf>

More information is available on the RARA website:

[https://rochesterham.org/license\\_testing.htm](https://rochesterham.org/license_testing.htm)

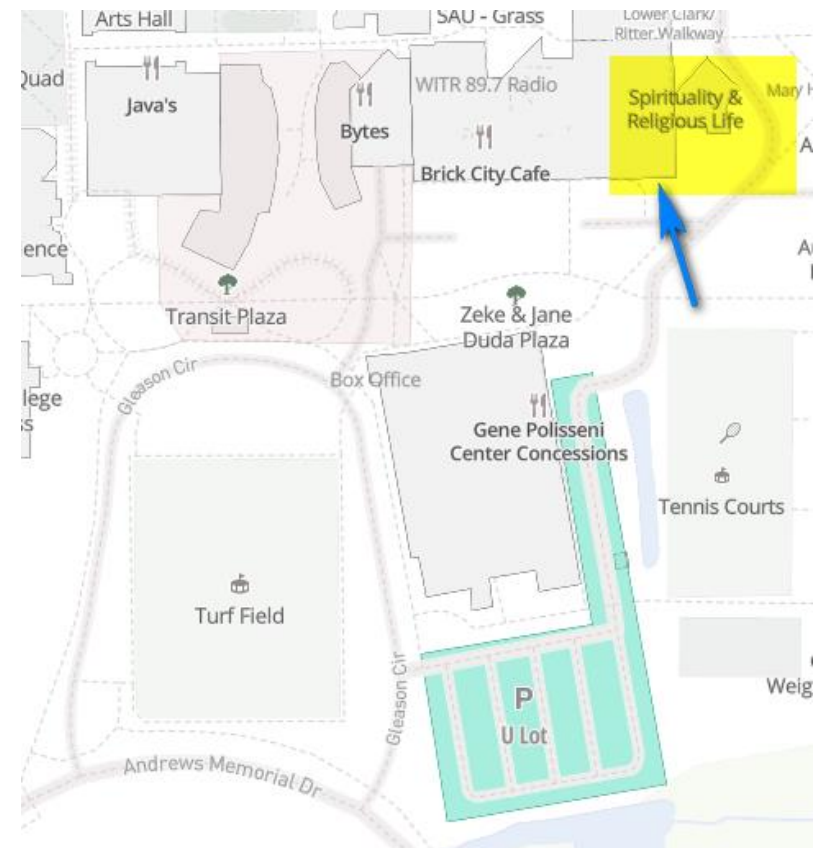
Applicants must supply their own PPE (Mask is a minimum), pen, pencil, calculator and be COVID negative and symptom free

Testing begins at 10:00AM.

Testing is free!

Jeffery Bahteas	KD2YIO	G	Yin He	KD2YIQ	E
Erin Patteter	KD2YIV	G	<b>Thaddeus Pawlicki</b>	TBD	T
<b>Jason Richardson</b>	TBD	T			

**New licensees names are in BOLD**



# RaRa CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

January 2022						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						<b>1</b> <b>ARRL Kids Day</b> SARTG New Year RTTY Contest AGCW Happy New Year Contest AGCW VHF/UHF Contest QRP ARCI New Years Sprint Original QRP Contest WW PMC Contest
<b>2</b> Original QRP Contest WW PMC Contest K1USN Slow Speed Test	<b>3</b> <b>AWA Net 145.110 MHz, 7pm</b> <b>VHF Group 9pm 144.260 SS</b> WW Sideband Activity Contest ARS Spartan Sprint OK1WC Memorial	<b>4</b> RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test - Fray	<b>5</b> <b>RaRa Monthly Mtg ONLINE 7pm</b> <b>ROC City Net ~1.91 MHz, 7 pm</b> CWops Mini-CWT Test VHF/UHF FT8 Activity Contest UKEICC 80M Contest Walk for the Bacon QRP Contest	<b>6</b> <b>RaRa BoD 6:30pm ONLINE</b> <b>ARES Net 146.610 MHz, 7pm</b> <b>VHF Group 9pm 50.200 USB</b> NCCC, RTTYOPS, SKCC Sprints NRAU 10M Activity Contest Walk for the Bacon QRP Contest EACW Meeting	<b>7</b> K1USN Slow Speed Test	<b>8</b> <b>ARRL RTTY Roundup</b> YB DX Contest Old New Year Contest SKCC Sprintathon PODXS 070 Club PSKFest RSGB AFS Contest, CW EUCW 160M Contest
<b>9</b> <b>ARRL RTTY Roundup</b> K1USN Slow Speed Test SKCC Sprintathon EUCW 160M Contest 4 States QRP Group Sprint NRAU-Baltic Contest, CW Midwinter Contest	<b>10</b> <b>AWA Net 145.110 MHz, 7pm</b> <b>VHF Group 9pm 144.260 SS</b> WW Sideband Activity Contest OK1WC Memorial NRAU-Baltic Contest, SSB	<b>11</b> RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test – Fray DARC 10M Contest	<b>12</b> <b>ROC City Net ~1.91 MHz, 7 pm</b> CWops Mini-CWT Test VHF/UHF FT8 Activity Contest	<b>13</b> <b>ARES Net 146.610 MHz, 7pm</b> <b>VHF Group 9pm 50.200 USB</b> NCCC Sprints RTTYOPS Weeksprint EACW Meeting	<b>14</b> K1USN Slow Speed Test	<b>15</b> <b>ARRL January VHF Contest</b> Malaysia DX Contest Hungarian DX Contest RSGB AFS Contest, Data North American QSO Party, CW WAB 1.8 MHz Phone PRO Digi Contest Feld Hell Sprint
<b>16</b> <b>ARRL January VHF Contest</b> Hungarian DX Contest RSGB AFS Contest, Data North American QSO Party, CW PRO Digi Contest Run for the Bacon QRP Contest K1USN Slow Speed Test	<b>17</b> <b>AWA Net 145.110 MHz, 7pm</b> <b>VHF Group 9pm 144.260 SS</b> WW Sideband Activity Contest OK1WC Memorial	<b>18</b> RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test - Fray	<b>19</b> <b>ROC City Net ~1.91 MHz, 7 pm</b> CWops Mini-CWT Test VHF/UHF FT8 Activity Contest Walk for the Bacon QRP Contest	<b>20</b> <b>ARES Net 146.610 MHz, 7pm</b> <b>VHF Group 9pm 50.200 USB</b> NCCC Sprints RTTYOPS Weeksprint EACW Meeting Walk for the Bacon QRP Contest	<b>21</b> K1USN Slow Speed Test	<b>22</b> BARTG RTTY Sprint RSGB AFS Contest, SSB NA Collegiate Championship,SSB North American QSO Party, SSB
<b>23</b> K1USN Slow Speed Test BARTG RTTY Sprint RSGB AFS Contest, SSB NA Collegiate Championship,SSB North American QSO Party, SSB Classic Exchange, Phone	<b>24</b> <b>AWA Net 145.110 MHz, 7pm</b> <b>VHF Group 9pm 144.260 SS</b> WW Sideband Activity Contest OK1WC Memorial Classic Exchange, Phone	<b>25</b> RTTYOPS Weeksprint QRP Foxhunt Phone Weekly Test – Fray Classic Exchange, Phone	<b>26</b> <b>ROC City Net ~1.91 MHz, 7 pm</b> <b>AWA Linc Cundall CW Contest</b> CWops Mini-CWT Test Classic Exchange, Phone	<b>27</b> <b>ARES Net 146.610 MHz, 7pm</b> <b>VHF Group 9pm 50.200 USB</b> <b>AWA Linc Cundall CW Contest</b> NCCC Sprints RTTYOPS Weeksprint EACW Meeting	<b>28</b> K1USN Slow Speed Test	<b>29</b> <b>AWA Linc Cundall CW Contest</b> CQ 160M Contest, CW REF Contest, CW UBA DX Contest, SSB Winter Field Day
<b>30</b> <b>AWA Linc Cundall CW Contest</b> CQ 160M Contest, CW REF Contest, CW UBA DX Contest, SSB Winter Field Day K1USN Slow Speed Test	<b>31</b> <b>AWA Net 145.110 MHz, 7pm</b> <b>VHF Group 9pm 144.260 SS</b> WW Sideband Activity Contest OK1WC Memorial					



# NEWS FROM AREA CLUBS

## MONROE COUNTY ARES / RACES NEWS

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: [secretary@monroecountymcomm.org](mailto:secretary@monroecountymcomm.org).

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 MHz (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: [www.monroecountymcomm.org](http://www.monroecountymcomm.org)

Facebook : Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESny

**Severe Weather Alerts:** Winter may bring severe weather in the form of heavy snow storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES  
George Adams IV, Net Control - [cq@k4gwa.net](mailto:cq@k4gwa.net)

## ROCHESTER DX ASSOCIATION, RDXA

In Person Meeting - Tuesday January 18, 2022 at 7:00pm

The next meeting will be at Johnny's Irish Pub,  
1382 Culver Road.



Program will be "Field Day planning - 2022

NOTE: Earlier start time and new location.  
Plenty of free parking alongside and behind the pub.

Due to the recent mandate by the Governor - Johnny's now requires all patrons to be vaccinated. A credential check (excelsior pass, vax card, etc.) will be asked upon entry.

NOTE : As the current mandate expires on 15 January, 2022, it may have been lifted by the time of our meeting.

Please check our website at RDXA.com for up to date information regarding meeting locations and requirements, if any.

All are welcome.  
Check our web site: [www.rdxa.com](http://www.rdxa.com).

## ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA will be having its regular meeting on January 21st at the Pittsford Town Hall's meeting room. Remember Monroe County now requires us to wear a mask for indoor events. At January's meeting if all goes well we will be using our new bylaws. Future meetings may be on Zoom and in person or just zoom if our regular meeting place is closed.

Stay tuned to our web site, [www.k2rra.org](http://www.k2rra.org) for current information on any changes to our meeting place. The elected RRRA officers for 2020 - 2022 are, Bob Shewell, N2HJD, President, Bob ODell, N2BZX, Vice President, ED Wilkon-ski, KC2WM Secretary, and Bob Smith, NS2B-Treasurer / Membership Chair-man. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site using PayPal. [www.k2rra.org](http://www.k2rra.org)

## XXR AMATEUR RADIO CLUB

The XXR Amateur Radio Club is not having in-person meetings at this time. We are having online meetings usually on the second Thursday of the months Sept-June. Get the latest updates at <http://xarc.us>



## ROCHESTER VHF GROUP

**You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.**



**Check out what we do by visiting our website at <http://RVHFG.org> to start.**

**Join our e-mail group by sending a message to [RVHFG+subscribe@groups.io](mailto:RVHFG+subscribe@groups.io).**

**Join our weekly on-the-air nets on SSB:  
2 meter band - Monday 9 PM 144.260 USB  
6 meter band - Thursday 9 PM 50.200 USB**

**No VHF SSB radio (yet) to join the nets?  
Log-in to Echolink [ka2ene-L #23426](#)**

**We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!**

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

**Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.**

## AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

Currently, ARAST meets the third Thursday of every month at the Emergency Communications Center on Harris Hill in Big Flats, next to the National Soaring Museum. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February at the same location. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

NOTE: Both CCARES and ARAST monthly meetings are now being held both in person and online. Check out the Upcoming Events at our website, [www.arast.info](http://www.arast.info), for the latest details.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at [http://www.arast.info/arast\\_website/public/repeaters.php](http://www.arast.info/arast_website/public/repeaters.php).

We also invite you to check out our new 6 meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

## COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

## DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

## DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

## KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

Happy New Year everyone!

KLARA has been busy on the radio. Some participated in the SKYWARN Recognition Day and made lots of contacts. There wasn't as many people on the radio as I was hoping but the great part was you could make contacts using any means available to you. I made some on HF, 2 Meter, Echolink and Facebook SRD website.

We are getting ready for the Winter Field Days event. Some will be doing it from home, some from a Rest Area hopefully and I am not sure where else others are thinking. So listen for us!

Due to Covid no Christmas Party this year but hopefully everything will be better for 2022!

## ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2<sup>nd</sup> Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

## THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

### THE RADIO AMATEUR IS:

<b>CONSIDERATE</b>	Never knowingly operating in such a way as to lessen the pleasure of others.
<b>LOYAL</b>	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
<b>PROGRESSIVE</b>	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
<b>FRIENDLY</b>	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
<b>BALANCED</b>	Radio is an avocation, never interfering with duties owed to family, job, school or community.
<b>PATRIOTIC</b>	With station and skill always ready for service to country and community.

**SKENOH ISLAND AMATEUR RADIO CLUB, SIARC**  
The Squaw Island Amateur Radio Club (SIARC) has changed its name to **Skenoh Island Amateur Radio Club** and meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will be Wednesday, January 12th. There will be License Exam Testing. Masks and social distancing will be required even if Vaccinated.

Check the SIARC website for updates. <http://www.siarc.us/>

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 2000 hours on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate.

**GENESEE VALLEY AMATEUR RADIO ASSOCIATION**  
Email [n3dsp@lafireline.net](mailto:n3dsp@lafireline.net) for details.

**INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE**

Visit our website at <http://www.interlockroc.org/>,  
contact us at [info@interlockroc.org](mailto:info@interlockroc.org),  
or find us in #interlock on Freenode IRC.

**ROCHESTER MAKERSPACE**  
For more information visit <https://www.makerspacerochester.org/hamradio>

**ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE**  
For more information visit <http://www.rochesterastronomy.org/>

## RAG ARTICLE LAYOUT HINTS

- Orientation - Landscape
- Main Text Box H - 7.7, W - 10.4
- 2 columns, 0.3 spacing between columns
- Font: Arial
- Title: 20 pt, Bold, Small Caps
- Author: 10 pt, Bold, Small Caps
- Main Text: 10 pt
- Single space after periods
- Text Alignment: Justified
- Title & Author Alignment: Centered
- No special formatting
- Try to limit pictures to the width of a column
- Picture Format: jpg or png
- Document format: Microsoft Word compatible or text. No special embedded formatting.

# RARA OFFICERS, DIRECTORS AND COORDINATORS

## OFFICERS

<b>President:</b>		<b>president@rochesterham.org</b>	<b>Treasurer:</b>		<b>treasurer@rochesterham.org</b>
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Scott Theis, W2LW	(845) 774-9809		Karl Heinz Kremer, K5KHK	(585) 210-0840	

## DIRECTORS

Paul Conaway, KD2DO	(585) 506-5538	<b>ConawayNY@aol.com</b>	Mike Kennerknecht, N2MAK	(585) 754-2444	<b>makennerknecht@gmail.com</b>
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## ACTIVITY COORDINATORS

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<b>Club Station Trustee</b>	Dave Enright, K3WHD	<b>denright1228@gmail.com</b>	<b>Raffle Administrators</b>	Forest Shick, WA2MZG Jeff Sonstein, KD2RRB	<b>wa2mzg@arrl.net</b>
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## ROCHESTER AREA RADIO CLUB CONTACTS

### Antique Wireless Association (AWA)

Lynn Bisha, W2BSN: [lbisha@rochester.rr.com](mailto:lbisha@rochester.rr.com)

### Amateur Radio Association of the Southern Tier (ARAST)

Reiner Dieg, N2PEZ: [n2pez@arrl.net](mailto:n2pez@arrl.net)

### Astronomy Section Rochester Academy of Science

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### Community Amateur Radio Club (CARC)

Joe Gangi, AC2NB: [ac2nb.carc@gmail.com](mailto:ac2nb.carc@gmail.com)

### Digital Communications Association of Perinton (DCAP)

Gary Skuse, KA1NJL: [ka1njl@arrl.net](mailto:ka1njl@arrl.net)

### Drumlins Amateur Radio Club Ltd. (DARC)

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### Fisherman's Net Amateur Radio Club

Jim Sutton, N2OPS: [jim@otrym.org](mailto:jim@otrym.org)

### Genesee Valley Amateur Radio Assn.

Bill Boyd, N3DSP: [N3DSP@lafireline.net](mailto:N3DSP@lafireline.net)

### Keuka Lake Amateur Radio Association (KLARA)

Jim Caneen, W2JTC: [jcpilot@localnet.com](mailto:jcpilot@localnet.com)

### Monroe County ARES / RACES

Dave Timmons, W2DST: [secretary@monroecountymcomm.org](mailto:secretary@monroecountymcomm.org)

### Orleans County Amateur Radio Club (OCARC)

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### Rochester Amateur Radio Association (RARA)

Tim Barrett, K9VB: [president@rochesterham.org](mailto:president@rochesterham.org)

### Rochester Institute of Technology ARC

Jim Stefano, W2COP: [wireless@mail.rit.edu](mailto:wireless@mail.rit.edu)

### ROC City Net

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### Rochester DX Association (RDXA)

Chris Shalvoy, K2CS: [cshalvoy@att.net](mailto:cshalvoy@att.net)

### Rochester Makerspace

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### Rochester Radio Repeater Association (RRRA)

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### Rochester VHF Group (RVHFG)

Rus Healy, K2UA: [chairman@rvhfg.org](mailto:chairman@rvhfg.org)

### Squaw Island Amateur Radio Club (SIARC)

Steve Benton, WB2VMR: [sbenton2@rochester.rr.com](mailto:sbenton2@rochester.rr.com)

### XRX Amateur Radio Club

Brian Donovan, K2AS: [k2as@outlook.com](mailto:k2as@outlook.com)

## FEBRUARY RAG DEADLINE

### JANUARY 15, 2022

**RARA MEETS AT 7PM ON THE FIRST  
WEDNESDAY OF EACH MONTH.**

## JOIN US ONLINE AT:

<https://attendee.gotowebinar.com/register/6773711127547605260>

CONTACT [WEBMASTER@ROCHESTERHAM.ORG](mailto:WEBMASTER@ROCHESTERHAM.ORG) FOR SUPPORT

## Rochester Area Repeater Listing

### THE RARA RAG

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